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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/609,094

06/27/2003

Robert J. Delaney

1322/134

7436

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7590

02/06/2008

JENKINS, WILSON, TAYLOR & HUNT, P. A.

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EXAMINER

ADDY, THJUAN KNOWLIN

ART UNIT

PAPER NUMBER

2614

MAIL DATE

DELIVERY MODE

02/06/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/609,094

Applicant(s)

DELANEY ET AL.

Examiner

Thjuan K. Addy

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 06/27/2003.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 24-35 are rejected under 35 U.S.C. 101 because the claimed invention is not supported by either a specific and substantial asserted utility or a well established utility.
2. The original disclosure does not clearly support of what "product" has been positively disclosed as, nor does the original disclosure clearly support of what "medium" has been positively disclosed as. The original disclosure does not mention that any hardware system/method can be or may be performed/substituted by various combinations of software and hardware. There is no adequate and enabling disclosure.
3. Claims 24-35 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific and substantial asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-35 are rejected under 35 U.S.C. 102(e) as being anticipated by Copley et al. (US 6,421,440).
5. In regards to claims 1, 7, 10, 12, 13, 24, 30, 33, and 35, Copley discloses a method, signaling message routing node (e.g., element), and computer program product for detecting signaling connection control part (SCCP) looping in a telecommunications network (See col. 1 lines 22-25 and col. 1 lines 64-67), the method comprising: (a) receiving, at a signaling message routing node, an SCCP message from an originating node (e.g., network element) (See col. 4 lines 59-66); (b) performing global title translation (GTT) for the SCCP message and thereby determining a destination point code (DPC) for the signaling message (See col. 4-5 lines 66-1 and col. 5 lines 23-42); (c) comparing the post-GTT DPC with a first point code stored in a message transfer part (MTP) originating point code (OPC) associated with the SCCP message (See col. 3 lines 19-28 and col. 5 lines 23-38); (d) in response to detecting a match in step (c), identifying the presence of SCCP looping for the SCCP message; (e) in response to failing to detect a match in step (c), mapping the first point code to at

least one second point code; (f) comparing the post-GTT DPC to the second point code; and (g) in response to detecting a match in step (f), identifying the presence of SCCP looping for the signaling message (See col. 2 lines 17-35 and col. 3 lines 1-18).

6. In regards to claims 2 and 25, Copley discloses the method and computer program product, wherein steps (a)-(g) are performed at a signal transfer point (STP) (See col. 2 lines 63-67 and col. 3 lines 19-28).

7. In regards to claims 3 and 26, Copley discloses the method and computer program product, wherein the SCCP message comprises a database query (See col. 3 lines 1-18 and col. 4-5 lines 63-13).

8. In regards to claims 4 and 27, Copley discloses the method and computer program product, wherein the database query comprises a message requiring local number portability (LNP) message relay service (See col. 3 lines 1-18 and col. 4-5 lines 63-13).

9. In regards to claims 5 and 28, Copley discloses the method and computer program product, wherein the database query comprises a local number portability (LNP) query (See col. 3 lines 1-18 and col. 4-5 lines 63-13).

10. In regards to claims 6 and 29, Copley discloses the method and computer program product, wherein mapping the first point code to at least one second point code includes mapping the first point code to a capability point code of the originating node and wherein step (f) includes comparing the post-GTT DPC to the capability point code (See col. 3 lines 19-45).

11. In regards to claims 8 and 31, Copley discloses the method and computer

program product, wherein mapping the first point code to at least one second point code includes mapping the first point code to a set of capability point codes associated with STPs in addition to the originating node and wherein comparing the post-GTT DPC to the second point code includes comparing the post-GTT DPC to point codes in the set (See col. 3 lines 19-45).

12. In regards to claims 9 and 32, Copley discloses the method and computer program product, wherein mapping the first point code to at least one second point code includes mapping the first point code to a set of true point codes associated with STPs in addition to the originating node and wherein comparing the post-GTT DPC to the second point code includes comparing the post-GTT DPC to point codes in the set (See col. 3 lines 19-45).

13. In regards to claims 11 and 34, Copley discloses the method and computer program product, wherein determining whether SCCP looping is present includes identifying the presence of SCCP looping when a point code to which the OPC correlates matches the DPC or a point code to which the DPC correlates matches the OPC (See col. 2 lines 17-35 and col. 3 lines 1-18).

14. In regards to claim 14, Copley discloses the signaling message routing node, wherein the communications link module comprises an SS7 communications link module for sending and receiving SS7 messages over an SS7 network (See col. 2-3 lines 63-12).

15. In regards to claim 15, Copley discloses the signaling message routing node, wherein the communications link module comprises an IP communications link module

for sending and receiving IP-encapsulated SS7 messages over an IP network (See col. 2-3 lines 63-12).

16. In regards to claim 16, Copley discloses the signaling message routing node, wherein the global title translation engine is adapted to perform intermediate global title translation of the SCCP message (See col. 3 lines 46-62).

17. In regards to claim 17, Copley discloses the signaling message routing node, wherein the GTT engine is adapted to perform final global title translation of the SCCP message (See col. 3 lines 46-62).

18. In regards to claim 18, Copley discloses the signaling message routing node (e.g., network element), wherein the SCCP loop detector is adapted to map the first point code to a predetermined set of point codes and to compare the post-GTT DPC with point codes in the set (See col. 3 lines 19-28).

19. In regards to claim 19, Copley discloses the signaling message routing node, wherein the predetermined set of point codes includes a capability point code of the originating node (See col. 3 lines 19-28).

20. In regards to claim 20, Copley discloses the signaling message routing node, wherein the predetermined set of point codes includes capability point codes associated with nodes in addition to the originating node (See col. 3 lines 19-28 and col. 3-4 lines 66-19).

21. In regards to claim 21, Copley discloses the signaling message routing node, wherein the predetermined set of point codes includes true point codes associated with nodes in addition to the originating node (See col. 3 lines 19-28).

22. In regards to claim 22, Copley discloses the signaling message routing node, wherein the SCCP loop detector is adapted to determine a direction for the SCCP message after global title translation, whether the originating node is adjacent to the signaling message routing node and whether a post-GTT destination for the SCCP message is adjacent to the signaling message routing node (See col. 3 lines 19-28).

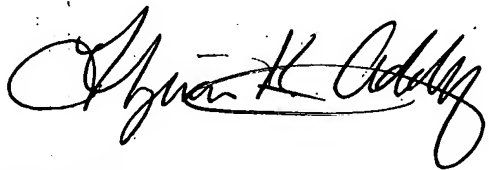
23. In regards to claim 23, Copley discloses the signaling message routing node, wherein the SCCP loop detector is adapted to select the second point code to compare with the post-GTT DPC based on the adjacency and direction determinations (See col. 2 lines 17-35 and col. 3 lines 1-18).

Conclusion

24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thjuan K. Addy whose telephone number is (571) 272-7486. The examiner can normally be reached on Mon-Fri 8:30-5:00pm.

25. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

26. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Thjuan K. Addy', written in a cursive style.

Thjuan K. Addy
Patent Examiner
AU 2614